CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/WNo.11/SMV/CEMENT/2013-14

Date: 02.01.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. S.M. Varadharajappa,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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Job No.: CTCE/BBMP/WNo.11/SMV/SAND/2013-14 : 02.01.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. S.M. Varadharajappa,** Contractor, Bangalore.

Name of Work : Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013

Date of Testing : 02.01.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	4.20	4.20	95.8	90-100
2.36	263	13.15	17.35	82.7	75-100
1.18	379	18.95	36.30	63.7	55-90
600 Micron	518	25.90	62.20	37.8	35-59
300 Micron	495	24.75	86.95	13.1	8-30
150 Micron	167	8.35	95.30	4.7	0-10

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Job No.: CTCE/BBMP/WNo.11/SMV/AGG/2013-14

: 02.01.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. S.M. Varadharajappa,** Contractor, Bangalore.

Name of Work : Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013

Date of Testing : 02.01.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25100**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	978	3.90	3.90	96.10	95-100
20	15969	63.62	67.52	32.48	30-70
10	5332	21.24	88.76	11.24	10-35
4.75	2499	9.96	98.72	1.28	0-5

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Job No.: CTCE/BBMP/WNo.11/SMV/STEEL/2013-14 08.01.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S.M. Varadharajappa,** Contractor, Bangalore.
Name of the work	:	Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013
Date of Test	:	08.01.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	513	546	12.85	O.K	O.K

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Job No.: CTCE/BBMP/WNo.11/SMV/STEEL/2013-14

08.01.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S.M. Varadharajappa,** Contractor, Bangalore.
Name of the work	:	Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013
Date of Test	:	08.01.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	516	549	13.10	O.K	O.K

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Job No.: CTCE/BBMP/WNo.11/SMV/CUBE/2013-14

10.02.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. S.M. Varadharajappa,** Contractor, Bangalore.
Name of the work	: Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2014	10.02.2014	8.114	471.9	20.97
2	13.01.2014	10.02.2014	8.247	489.2	21.74
3	13.01.2014	10.02.2014	8.382	504.4	22.42

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Job No.: CTCE/BBMP/WNo.11/SMV/CUBE/2013-14

24.02.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. S.M. Varadharajappa,** Contractor, Bangalore.
Name of the work	: Improvements to road, construction of culverts and drains in Varadarajanagara Gangamma Temple Road in Ward No. 11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/348/1/2013-14 Dated: 30.12.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2014	24.02.2014	8.253	478.9	21.28
2	27.01.2014	24.02.2014	8.438	525.5	23.36
3	27.01.2014	24.02.2014	8.374	502.3	22.32

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